

541, 026

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number  
**WO 2005/050770 A1**

- (51) International Patent Classification<sup>7</sup>: **H01M 8/14**, C01B 33/142, H01M 10/10
- (74) Agent: **VIKHOLM, Tommy**; Eka Chemicals AB, Patent Department, P.O. Box 11556, S-100 61 Stockholm (SE).
- (21) International Application Number: PCT/SE2004/001635
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 9 November 2004 (09.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03445134.4 21 November 2003 (21.11.2003) EP
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **AKZO NOBEL N.V.** [NL/NL]; P.O. Box 9300, NL-6800 SB Arnhem (NL).
- (71) Applicant (*for SE only*): **EKA CHEMICALS AB** [SE/SE]; S-445 80 Bohus (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **GREENWOOD, Peter** [SE/SE]; Vaktmästaregången 11, S-413 18 Göteborg (SE). **LAGNEMO, Hans** [SE/SE]; Kung Håkonsgata 20, S-417 28 Göteborg (SE). **REED, Matthew** [US/US]; 2140 Mark Hall Court, Marietta, GA 30062 (US).
- Published:
- with international search report
  - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: COMPOSITION

(57) Abstract: The present invention relates to a method of preparing a composition comprising mixing a silica sol having an S-value from about 5 to about 50 % and a mineral acid. The invention also relates to a composition obtainable by the method and a composition comprising a network of silica particles and mineral acid, wherein the silica particles have a particle size of from about 2 to about 7 nm. The invention also relates to the use of the composition as a gelled electrolyte.

WO 2005/050770 A1